

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Sukhendu K Majumdar

GENERAL INFORMATION:

Name:	Diversified Composites, Inc.
Address:	1600 Dolwick Drive, Erlanger, Kentucky 41018
Date application received:	November 1, 2005 and August 1, 2006.
SIC/Source description:	3089
EIS #:	21-015-00118
AI number:	37172
Permit number:	F-06-052

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
_ Minor	<input checked="" type="checkbox"/> Synthetic minor
<u>X</u> Significant	<input type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☒ Area is non-attainment (list pollutants): 8-hr ozone and PM2.5

EMISSIONS SUMMARY BASED ON APPLICATION:

Pollutant	Actual (tpy) 2005	Title V Potential (tpy)
PM10	0.12	0.44
PT	0.12	0.44
VOC	11.99	<90.0
Single HAP (styrene)	4.9	<9.0
Total HAPs	5.6	<22.5

SOURCE PROCESS DESCRIPTION:

Diversified Composites, Inc. submitted a significant revision application that was received by the Division on November 1, 2005 and a permit renewal application on August 1, 2006. The company presently operates under federally enforceable conditional major operating permit # F-02-003. The expiration date of the permit is on July 26, 2007. The company manufactures reinforced fiberglass material of different shapes and sizes. The fiberglass materials are coated with different concentration of styrene resins depending on the customer's specification. There are presently eight pultrusion machines and the company is planning to expand the manufacturing by adding two pultrusion machines. Since the production of the reinforced fiberglass is dictated by the customer demand and specification, not all the machines are operational all the time. The potential to emit of VOCs and HAPs from the facility exceeds major source threshold based on the capacity rating of each machine. However, the company requested to keep VOC and HAPs emissions under the major source threshold by controlling chemical and resin usage. Actual emissions of the single HAP and combined HAPs are below 9 tpy and 22.5 tpy respectively.

EMISSION AND OPERATING CAPS DESCRIPTION:***Hazardous Air Pollutants (HAP) and Volatile Organic Compounds (VOC):***

Diversified Composite, Inc. has asked that a federally enforceable renewal permit be written that requires HAP and VOC control. This keeps their potential to emit single and combined HAP and VOC under the major source threshold.